



# Adenine sulfate PRODUCT DATA SHEET

issue date 03/19/2018

<b>Product Name:</b>	Adenine sulfate
<b>Product Number:</b>	A026
<b>CAS Number:</b>	321-30-2
<b>Molecular Formula:</b>	$C_5H_5N_5 \cdot 1/2(H_2SO_4)$
<b>Molecular Weight:</b>	184.17
<b>Form:</b>	Powder
<b>Appearance:</b>	White powder
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Adenine sulfate is a sparingly soluble (1 mg/mL) purine nucleobase involved in a wide variety of cellular processes and comprises one of the five nitrogenous bases involved in nucleic acid synthesis. In addition, adenine serves as the purine base in adenosine triphosphate (ATP), a major unit of energy involved in cellular metabolism. Adenine also plays a role in cellular metabolism as a component to nicotinamide adenine dinucleotide (NAD), and flavin adenine dinucleotide (FAD).
<b>Plant Biology Applications</b>	Adenine sulfate is commonly used as a tissue culture media supplement to serve as a cytokinin biosynthesis precursor (Sakakibare, 2006). In one experiment by Jana and Shekhawat, adenine sulfate demonstrated promotion of shoot formation in dill plant models using a concentration of 5.0 mg/mL.
<b>References:</b>	Berg, J. M. <i>NAD<sup>+</sup>, FAD, and Coenzyme A Are Formed from ATP</i> . 5th ed. New York: W.H. Freeman, 2002. Print.

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